CLAIMS

What is claimed:

1	1.	A disk of an optical tester, comprising:		
2		a transparent substrate that has a first surface and an opposite second		
3	surface;			
4		a coating on said first surface of said transparent substrate, wherein a		
5	thickness of	said coating is substantially inversely proportional to a refractive index o		
6	said coating.			
7	2	,		
5. 4 ·				
1	2.	The disk as recited in Claim 1, wherein said thickness of said coating is		
2	further substantially proportional to a wavelength of light used to be in said tester.			
1	3.	The disk as recited in Claim 1, wherein said coating is transparent.		
1	4.	The disk as recited in Claim 3, wherein said transparent coating has a		
2	hardness th	at is greater than a hardness of said transparent substrate.		
1	5.	The disk as recited in Claim 3, wherein said transparent substrate is a		
2	glass materi	al and said transparent coating is a diamond-like-carbon material.		

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1	6.	The disk as recited in Claim 5, wherein said diamond-like-carbon material		
2	is hydrogenated.			
1	7.	The disk as recited in Claim 5, wherein said diamond-like-carbon material		
2	is nitrogenated.			
1	8.	A flying height tester for a recording head of a hard disk drive,		
2	comprising:			
3	r r	a transparent substrate that has a first surface and an opposite		
4	second surface;			
5		a coating on said first surface of said transparent substrate, said		
6	coatir	ng being adjacent to the recording head, wherein a thickness of said coating		
7		estantially inversely proportional to a refractive index of said coating;		
8				
9	a light source that directs a beam of light through said transparent			
10	substrate and said coating and onto the recording head, wherein the beam of light is reflected from the recording head; and,			
11	ngitt	v		
11		a photodetector that detects the reflected light beam.		
	9.	The tester as recited in Claim 10, wherein said thickness of said coating is		
1				
2	further substantially proportional to a wavelength of said light.			

1	10.	The tester as recited in Claim 8, wherein said coating is transparent.		
1	11.	The tester as recited in Claim 10, wherein said transparent coating has a		
2	hardness th	at is greater than a hardness of said transparent substrate.		
1	12.	The tester as recited in Claim 10, wherein said transparent substrate is a glass		
2	material and said transparent coating is a diamond-like-carbon material.			
1	13.	The tester as recited in Claim 12, wherein said diamond-like-carbon		
2	material is hydrogenated.			
1	14.	The tester as recited in Claim 12, wherein said diamond-like-carbon		
2	material is r	nitrogenated.		
1	15.	A process for providing a disk for an optical tester, comprising:		
2		providing a transparent substrate that has a first surface and an opposite		
3	second surface;			
4		attaching a layer on said first surface of said transparent substrate,		
5	wherein a thickness of said layer is substantially inversely proportional to a refractive			
6	index of said	index of said layer.		

1	16.	The process as recited in Claim 15, wherein said thickness of said layer is	
2	further subs	stantially proportional to a wavelength of light used in said tester.	
1	17.	The process recited in Claim 15, wherein said layer is transparent.	
1	18.	The process as recited in Claim 15, wherein said transparent layer has a	
2	hardness that is greater than a hardness of said transparent substrate.		
	10	The masses of white d in Claims 10, whencin said transparent substrate is a	
1	19.	The process as recited in Claim 18, wherein said transparent substrate is a	
2	glass materi	al and said transparent layer is a diamond-like-carbon material.	
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1	20.	The process as recited in Claim 19, wherein said diamond-like-carbon	
2	material is hydrogenated.		
1	21.	The process as recited in Claim 20, wherein said diamond-like-carbon	

material is nitrogenated.

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